

=====

Sequence Listing was accepted.

If you need help call the Patent Electronic Business Center at (866)
217-9197 (toll free).

Reviewer: Anne Corrigan

Timestamp: Wed May 02 10:19:52 EDT 2007

=====

Application No: 10560336

Version No: 1.1

Input Set:

Output Set:

Started: 2007-05-02 10:19:21.261
Finished: 2007-05-02 10:19:23.806
Elapsed: 0 hr(s) 0 min(s) 2 sec(s) 545 ms
Total Warnings: 46
Total Errors: 0
No. of SeqIDs Defined: 47
Actual SeqID Count: 47

ErrCode	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (1)
W 213	Artificial or Unknown found in <213> in SEQ ID (2)
W 213	Artificial or Unknown found in <213> in SEQ ID (3)
W 213	Artificial or Unknown found in <213> in SEQ ID (4)
W 213	Artificial or Unknown found in <213> in SEQ ID (5)
W 213	Artificial or Unknown found in <213> in SEQ ID (6)
W 213	Artificial or Unknown found in <213> in SEQ ID (7)
W 213	Artificial or Unknown found in <213> in SEQ ID (8)
W 213	Artificial or Unknown found in <213> in SEQ ID (9)
W 213	Artificial or Unknown found in <213> in SEQ ID (10)
W 213	Artificial or Unknown found in <213> in SEQ ID (11)
W 213	Artificial or Unknown found in <213> in SEQ ID (12)
W 213	Artificial or Unknown found in <213> in SEQ ID (13)
W 213	Artificial or Unknown found in <213> in SEQ ID (14)
W 213	Artificial or Unknown found in <213> in SEQ ID (15)
W 213	Artificial or Unknown found in <213> in SEQ ID (16)
W 213	Artificial or Unknown found in <213> in SEQ ID (17)
W 213	Artificial or Unknown found in <213> in SEQ ID (18)
W 213	Artificial or Unknown found in <213> in SEQ ID (19)
W 213	Artificial or Unknown found in <213> in SEQ ID (20)

This error has occurred more than 20 times, will not be displayed

SEQUENCE LISTING

<110> WOPPMANN, CLAUDIA
VORNLOCHER, HANS-PETER
HADWIGER, PHILIPP
JOHN, MATTHIAS

<120> DOUBLE-STRANDED RIBONUCLEIC ACID WITH INCREASED
EFFECTIVENESS IN AN ORGANISM

<130> APX-026.01

<140> 10/560,336

<141> 2005-12-09

<150> PCT/US04/018848

<151> 2004-06-14

<150> EP 03013296.3

<151> 2003-06-13

<150> 60/479,354

<151> 2003-06-18

<150> EP 04002374.9

<151> 2004-02-03

<160> 47

<170> PatentIn Ver. 3.3

<210> 1

<211> 22

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1

caggaccucg ccgcugcaga cc

22

<210> 2

<211> 24

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 2

ggucugcagc ggcgaggucc uggc

24

<210> 3
<211> 22
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 3
gccuuugugg aacuguacgg cc 22

<210> 4
<211> 24
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 4
ggccguacag uuccacaaag gcau 24

<210> 5
<211> 24
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 5
cuucuccgcc ucacaccgcu gcaa 24

<210> 6
<211> 22
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 6
gcagcggugu gaggcggaga ag 22

<210> 7
<211> 21
<212> RNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 7
ggcgacuucg ccgagauguc c 21

<210> 8
<211> 23
<212> RNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 8
ggacaucucg gcgaagucgc cgc 23

<210> 9
<211> 21
<212> RNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 9
accgggcauc uucuccuccc a 21

<210> 10
<211> 23
<212> RNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 10
ugggaggaga agaugcccgg ugc 23

<210> 11
<211> 21
<212> RNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 11

gaucacccuc cuuaauauu u 21

<210> 12

<211> 23

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 12

aaauuuuuaa ggagggugau cgc 23

<210> 13

<211> 21

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 13

acggcuagcu gugaaagguc c 21

<210> 14

<211> 23

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 14

ggaccuuuca cagcuagccg uga 23

<210> 15

<211> 21

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 15

caaggagcag ggacaaguua c 21

<210> 16

<211> 23

<212> RNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

 <400> 16
 guaacuuguc ccugcuccuu gaa 23

 <210> 17
 <211> 23
 <212> RNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

 <400> 17
 cacguacgcg gaauacuucg aaa 23

 <210> 18
 <211> 21
 <212> RNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

 <400> 18
 ucgaaguauu ccgcguacgu g 21

 <210> 19
 <211> 21
 <212> RNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

 <400> 19
 ccgcuugacu gcagagagug c 21

 <210> 20
 <211> 21
 <212> RNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic

oligonucleotide

<400> 20

acucucugca gucaagcggc u

21

<210> 21

<211> 22

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 21

caucuucuuc aaggacgacg gc

22

<210> 22

<211> 22

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 22

cgucguccuu gaagaagau gu

22

<210> 23

<211> 23

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 23

gguggcgcug gaugguaagc cgc

23

<210> 24

<211> 23

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 24

ggcuuaccu ccagcgccac cau

23

<210> 25
<211> 22
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 25
uccccaggag gccugcggga gc 22

<210> 26
<211> 22
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 26
ucccgagggc cuccugggga gg 22

<210> 27
<211> 22
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 27
ugcagcuucg aagccucaca ga 22

<210> 28
<211> 22
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 28
ugugaggcuu cgaagcugca gc 22

<210> 29
<211> 22
<212> RNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 29
uggggagaga guucugagga uu 22

<210> 30
<211> 22
<212> RNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 30
uccucagaac ucucucccca gc 22

<210> 31
<211> 21
<212> RNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 31
accuccgcaa caacuacgcg c 21

<210> 32
<211> 21
<212> RNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 32
gcguaguugu ugcggaggua g 21

<210> 33
<211> 21
<212> RNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 33
guagaccuug cuacugccug c 21

<210> 34
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 34
aggcaguagc aaggucuacc a 21

<210> 35
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 35
caugacggaa cuagagacag c 21

<210> 36
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 36
ugucucuagu uccgucaugg u 21

<210> 37
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 37
cucuacgcuu guacgaggag c 21

<210> 38

<211> 21
 <212> RNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

 <400> 38
 uccucguaca agcguagaga c 21

 <210> 39
 <211> 21
 <212> RNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

 <400> 39
 cagacuucgg aguaccugcg c 21

 <210> 40
 <211> 21
 <212> RNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

 <400> 40
 gcagguacuc cgaagucugu u 21

 <210> 41
 <211> 22
 <212> RNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

 <400> 41
 caucuucuuc aaggacgacg gc 22

 <210> 42
 <211> 22
 <212> RNA
 <213> Artificial Sequence

 <220>

<223> Description of Artificial Sequence: Synthetic oligonucleotide	
<400> 42 cgucguccuu gaagaagaug gu	22
<210> 43 <211> 23 <212> DNA <213> Mus sp.	
<400> 43 aagctggccc tggacatgga gat	23
<210> 44 <211> 21 <212> RNA <213> Artificial Sequence	
<220> <223> Description of Artificial Sequence: Synthetic oligonucleotide	
<400> 44 ucagacaccu cacuuauuau u	21
<210> 45 <211> 23 <212> RNA <213> Artificial Sequence	
<220> <223> Description of Artificial Sequence: Synthetic oligonucleotide	
<400> 45 aauaauaagu gaggugucug auu	23
<210> 46 <211> 21 <212> RNA <213> Artificial Sequence	
<220> <223> Description of Artificial Sequence: Synthetic oligonucleotide	
<400> 46 gcagacaccu cacuuauuau u	21
<210> 47 <211> 23	

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 47

aaauaauaagu gaggugucug cgc

23